



GENERAL CONDITIONS

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- GC1. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- GC2. ALL WORK SHALL COMPLY WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC), ACI BUILDING CODE (ACI 318-02), ASTM STANDARDS AND ANY OTHER APPLICABLE CODES, RULES AND REGULATIONS BY AGENCIES HAVING JURISDICTIONS. WHERE CODES OVERLAP, COMPLY WITH THE MORE STRINGENT REQUIREMENTS.
- GC3. EXISTING DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
- GC4. ALL WORKMANSHIP MUST BE IN THE BEST PRACTICE OF THE TRADE AS DETERMINED BY THE OWNER/ENGINEER. ANY WORK NOT MEETING THESE STANDARDS WILL BE REJECTED.
- GC5. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS APPROVED IN WRITING BY THE OWNER/ENGINEER.
- GC6. CONTRACTOR IS TO DISPOSE OF ALL DEMOLITION MATERIALS AND LEAVE THE WORK IN A READY TO USE CONDITION.
- GC7. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, LABOR PROCEDURES AND SAFETY PRECAUTIONS FOR COMPLETING THE WORK.
- GC8. CONTRACTOR IS RESPONSIBLE FOR ALL WORK DURING CONSTRUCTION UNTIL FINAL APPROVAL BY OWNER/ENGINEER AND LOCAL OFFICIALS.
- GC9. WHERE SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT, ALL MATERIALS AND WORK MUST COMPLY WITH THE MANUFACTURER'S STRICT RECOMMENDATIONS FOR INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN INSTRUCTIONS AND TO THEN FOLLOW THEM.

CONCRETE

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- C1. ALL CONCRETE WORK SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
 - C2. CONCRETE FOR REINFORCED WALLS SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150-05, TYPE III (HIGH EARLY STRENGTH) AND SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 5000 PSI.
(3) DAY BREAK 3000 PSI BEFORE PUMPING
 - C3. CONCRETE FOR FLOWABLE BACKFILL SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150-05, TYPE II AND SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 200 PSI
 - C4. FLOWABLE BACKFILL MAY BE PLACED WHEN COMPRESSIVE STRENGTH OF REINFORCED WALLS HAS REACHED 3000 PSI.
 - C5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN TO THE OWNER/ENGINEER FOR APPROVAL. CONCRETE ACCEPTANCE SHALL BE ON THE BASIS OF "TRIAL MIXTURES" AS DESCRIBED IN ACI 318, SECTION 5.3. PROVIDE TRIAL MIXTURES FOR THREE DIFFERENT WATER-CEMENT RATIOS INDICATING 7-DAY AND 28-DAY COMPRESSIVE STRENGTH (FC); 1200 PSI GREATER THAN REQUIRED SHALL BE ACCEPTED.
 - C6. THE CONTRACTOR SHALL TAKE ONE SET OF EIGHT (8) STANDARD TEST CYLINDERS FOR EACH DAYS PLACEMENT AND THE OWNER'S TESTING AGENCY WILL PERFORM COMPRESSION TESTS ON TWO (2) CYLINDERS AT 3 DAYS, 7 DAYS AND 28 DAYS, LEAVING TWO (2) CYLINDERS IN RESERVE.
 - C7. FINE AGGREGATE SHALL BE WASHED NATURAL SAND CONFORMING TO ASTM C33. COARSE AGGREGATE SHALL BE WELL GRADED CRUSHED STONE OR WASHED GRAVEL CONFORMING TO ASTM C33 WITH A MAXIMUM SIZE OF 3/8" SIZE (AASHTO NO. 10).

- C8. MAXIMUM SLUMP SHALL BE:
 - 4" FOR REINFORCED WALLS.
 - 12" FOR FLOWABLE BACKFILL (PER ASTM C 1611)
- C9. ADD AIR ENTRAINING ADMIXTURE CONFORMING TO ASTM C260 TO PRODUCE MAXIMUM AIR BY VOLUME OF 5% FOR REINFORCED WALLS.
- C10. ALL CONCRETE SHALL BE TRUCK MIXED.
- C11. ALL PLACEMENT OF CONCRETE AND REINFORCEMENT SHALL BE ACCORDING TO ACI 318 (INCLUDING ACI 305 FOR HOT WEATHER AND ACI 306 FOR COLD WEATHER CONDITIONS); AND CRSI RECOMMENDED PRACTICES FOR 'PLACING REINFORCING BARS'.
- C12. REINFORCING BARS SHALL BE NEW ASTM A615, GRADE 60.
- C13. ALL REINFORCING SHALL BE INSPECTED BY THE OWNER'S TESTING AGENCY BEFORE CONCRETE IS PLACED.
- C14. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- C15. PROVIDE HYDROPHILIC WATERSTOPS BY GREENSTREAK, INC, HYDROTITE TYPE CJ-3030-M, OR APPROVED EQUIVALENT.
- C16. PROVIDE HILT TYPE HIT-HY 200 INJECTABLE MORTAR FOR DRILLED DOWEL REINFORCEMENT, OR APPROVED EQUIVALENT.

						DRAWING TITLE			DRAWN BY:	CHECKED BY:	APPROVED BY:		
						REINFORCED CONCRETE PIPE			CRM	CMH	RBB		
						PROJECT	 gai consultants	CLIENT	REVISION	SCALE:	ISSUE DATE:		
						POSSUM POINT POWER STATION				3/8"=1'-0"	02/16/2016		
0	02/18/16	CRM	CMH	RRB	ISSUED FOR CONSTRUCTION							SHEET NO.:	1 OF 1
NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:							GAI FILE NUMBER:	C150132-00-S-B2-S001_S00000_R000
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